

ACCESSION NR: AP3003460

S/0179/63/000/003/0119/0123

AUTHOR: Listrova, Yu. P.; Rudis, M. A. (Voronezh)

TITLE: Ultimate equilibrium of a toroidal shell

SOURCE: AN SSSR, Izv. Otdel. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 3, 1963, 119-123

TOPIC TAGS: elasticity, plasticity, strain, stress, toroidal shell

ABSTRACT: The carrying capacity of a toroidal rotary shell, made of rigid-plastic material and with a uniformly distributed pressure load, and whose edges $\theta = 0$ and $\theta = \pi$ are mounted relative to radial and axial motions, is studied. The problem is solved by a kinematic method which gives the upper estimate of the maximum pressure. The lower estimate is obtained from a consideration of the statically permissible stress fields satisfying the condition of a momentless stress state of the toroidal shell. For a toroidal shell

$$r_1 = r_0, \quad r_2 = R_0 \frac{1 + \alpha \sin \theta}{\sin \theta} \quad (\alpha = \frac{r_0}{R_0}) \quad (1.2)$$

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ACCESSION NR: AP3003460

where r_1 and r_2 are the main radii of curvature, θ is the angle between the axis of rotation of the shell and a normal and differentiation with respect to θ is shown by cross-hatching in Fig. 1 in the Enclosure. The formulas used to find the upper and lower estimates of the maximum pressure for equilibrium of the shell are, respectively:

$$P^* = \frac{c_0}{\beta} \left[1 + \frac{1}{2} \pi a + \frac{1}{43} + \frac{\sqrt{2}}{5} \frac{a}{\beta^{1/3}} \right] \left[1 + \frac{\pi a}{4} \right]^{-1} \quad (2.12)$$

and

$$\sigma_1 = \frac{p\beta^2 + a \sin \theta}{2 \left(1 + a \sin \theta \right)}, \quad \sigma_2 = \frac{p\beta^3}{2} (\sigma_1 > \sigma_2) \quad (2.14)$$

When the rigid-plastic material of the shell flows under maximum induced stress, the corresponding formulas for upper and lower estimates of the maximum pressure are, respectively

$$P^* = \frac{c_0}{\beta} \frac{1/a + 1/\pi a}{1 + 1/a \pi a} \quad (3.14)$$

$$P_0 = \frac{c_0}{\beta} \frac{1/a + 4/a}{1 + 1/a^3} \quad (3.15)$$

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For materials not sensitive to mean stress, the following equations are used to determine the upper and lower estimates of maximum pressure:

$$P^* = \frac{c_0 \sqrt{\alpha} + \sqrt{1+\alpha}}{3(1+\sqrt{1+\alpha})} \quad (4.1)$$

and

$$P_o = \frac{2 c_0}{\sqrt{3} \sqrt{3} \sqrt{1+\alpha} + \sqrt{1+\alpha}} \quad (4.2)$$

Orig. art. has 2 figures and 38 formulas.

ASSOCIATION: none

SUBMITTED: 05Feb63

DATE ACQ: 24Jul63

ENCL: 001

SUB CODE: AP

NO REF SOV: 003

OTHER: 000

Cerd 3/4/63

ACCESSION NR: AP4018443

8/0179/84/000/001/0187/0192

AUTHOR: Listrova, Yu. P. (Voronezh)

TITLE: On determination of the equilibrium of sandwich structures made of compressible material

SOURCE: AN SSSR. Izv. Otd. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 1, 1964, 187-192

TOPIC TAGS: stress analysis, stress, sandwich structure, multilayer structure, two layer plate, double layer plate, force analysis, multilayer plate

ABSTRACT: An examination of the limiting equilibrium of two-layer structures made of a material whose condition of fluidity depends on the average stress. The general relationships are given for the limiting surface in four-dimensional stress space and some three-dimensional projections are constructed. The limiting equilibrium of a freely supported circular plate is examined as an example. Orig. art. has: 6 figures, 31 formulas.

ASSOCIATION: none

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ACCESSION NR: AP4018443

SUBMITTED: 18May63

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: AP

NO REF Sov: 005

OTHER: 004

Card 2/2

ACCESSION NR: AP4043892

S/0179/64/000/004/0077/0086

AUTHOR: Ivlev, D. D., Listrova, Yu. P., Nemirovskiy, Yu. V.

TITLE: Limit design of laminated plates and shells of revolution

SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 4, 1964, 77-86

TOPIC TAGS: airfoil design, limit design, airfoil limit design, laminated plate, shell of revolution, shell stability, cylindrical shell

ABSTRACT: Many investigations have considered the carrying capacity of plates and shells of revolution. The theory has been simplified significantly by consideration of laminated models. The limit design of reinforced plates and cylindrical shells has also been considered with the shell consisting of two layers. In the present paper, reinforced shells are considered as laminated shells, and shells of revolution are analyzed, particularly cylindrical shells. These shells have sets of meridional and annular diaphragms. Fig. 1. in the Enclosure shows the different structural members. In this figure, a_1 , b_1 and c_1 may be replaced by a_2 , b_2 , and c_2 and eventually by the multi-laminar structures a_3 , b_3 and c_3 . First, a_1 is considered. This can be replaced by the models in Fig. 2 of the

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Enclosure. The upper layer is taken as the skin and the other two layers are diaphragms. If the limit resistance under tension-compression for the structures shown in Figs. 2a and 2b coincide:

$$n_{ij} = k_i \delta + k_i H_i s_i = k'_i \delta' + k'_i (H'_i + l_i s_i) \quad (1)$$

(i = 1, 2)

After transformations:

$$k'_i + k''_i = \frac{k_i H_i s_i}{l_i} \quad (2)$$

(i = 1, 2)

where k' is the yield point of the skin and k'_i (with $i=1, 2$) are the yield points of the layers replacing the diaphragms. Further, the authors find the limit moments (Fig. 2a):

$$M_{ij} = 1/3 s_i k'_i z_i^2 + 1/3 s_i k'_i (H_i - z_i)^2 + 1/3 k'_i [(H_i - z_i + \delta)^2 - (H_i - z_i)^2] \quad (3)$$

(i = 1, 2)

Equations are then evolved for the other types of structures considered. The creep surfaces of laminated shells are plotted on the basis of methods developed by V. Prager. Considering that the skin material follows the plastic conditions of Tresk (see Fig. 3 in

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in the Enclosure) and that D is the dissipation of mechanical work per unit of time for a deformed shell, we obtain

$$D = \frac{1}{2} k^* (|e_1^+| + |e_2^+| + |e_1^- + e_2^+|) + (k_1^* |e_1^+| + k_2^* |e_2^+|) + (k_1^{**} |e_1^-| + k_2^{**} |e_2^-|) \quad (4)$$

where C_1 and C_2 are the deformation rates. On the basis of approximations described by P. G. Hodges, Jr. the creep surface is plotted as the intersection of the creep surfaces without moments and with pure moments. Under maximum stress without moments, the creep surface is:

$$\begin{aligned} N_1 &= \frac{1}{2} k^* [\text{sign}(e_{10} + 2e_{20}) + 2\text{sign}(2e_{10} + e_{20}) - \text{sign}(e_{20} - e_{10})] + \\ &\quad + (k_1^* + k_1^{**}) \text{sign}(e_{10}) \\ N_2 &= \frac{1}{2} k^* [2\text{sign}(e_{10} + 2e_{20}) + \text{sign}(2e_{10} + e_{20}) + \\ &\quad + \text{sign}(e_{20} - e_{10})] + (k_2^* + k_2^{**}) \text{sign}(e_{20}) \end{aligned} \quad (5)$$

The limit condition of cylindrical shells under axial load is also considered in the paper. The polyhedron shown in Fig. 4 of the Enclosure is plotted on the basis of the Tresk creep

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ACCESSION NR: AP4043892

condition and the previously mentioned dissipation, and parameters for the models are tabulated. Orig. art.has: 10 figures, 29 equations and 5 tables.

ASSOCIATION: none

SUBMITTED: 04Feb63

ENCL: 004

SUB CODE: AS

NO REF SOV: 009

OTHER: 003

Card 4/8

ACCESSION NR: AP4043892

ENCLOSURE: 01

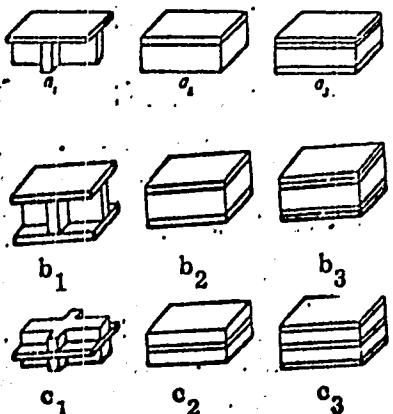


Figure 1.

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"APPROVED FOR RELEASE: 06/20/2000

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ACCESSION NR: AP4043892

ENCLOSURE: 02

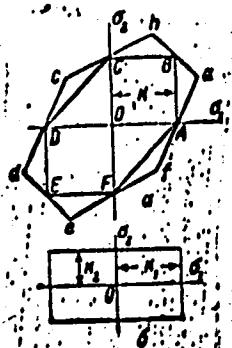


Figure 2.

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ACCESSION NR: AP4043892

ENCLOSURE: 03

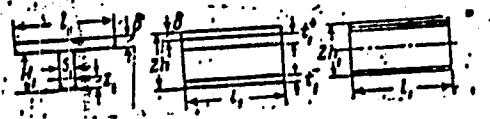


Figure 3.

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ACCESSION NR: AP4043892

ENCLSOURCE: 04

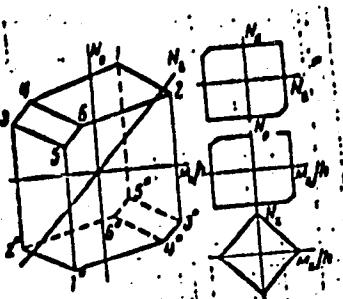


Figure 4.

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L 58466-65 EWP(d)/EWP(m)/EWP(v)/EWA(d)/EWP(v)/T-2/EWP(e)/EWA(h) Feb
WW/EM

ACCESSION NR: AP501313J

UR/0373/65/000/002,0088/0094

AUTHORS: Listrova, Yu. F. (Voronezh); Rudis, M. A. (Voronezh)

20
21

TITLE: On the equilibrium limit of nonhomogeneous plates and shells of revolution under segment-linear plasticity conditions

SOURCE: AN SSSR. Izvestiya, Mekhanika, no. 2, 1965, 88-94

TOPIC TAGS: shell theory, plasticity theory, yield point, continuum mechanics,
stress load

ABSTRACT: The yield hypersurface of shell of revolution was studied parametrically for a rigid-plastic material. The shell is assumed to be loaded symmetrically, subject to the Tresk yield condition expressed by the hexagon AECDEF of Fig. 1 on the Enclosure. This condition is given by

$$\max[|\sigma_i - \sigma_j|] = k(z, \theta) \quad (i \neq j = 1, 2)$$

The deformation rate in the direction of the normal to the shell surface is depicted by a straight cut KI (see Fig. 2 on the Enclosure). To obtain parametric representations of the faces of the hypersurface, three positions are con-

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ACCESSION NR: AP5013133

sidered for the cut KL as shown on Fig. 3 on the Enclosure, and the yield point is assumed to vary linearly with the shell thickness or,

$$k(z) = k_0 + 2k_1 z/h$$

The example of a spherical shell is considered under an internal pressure p with clamped edges. Using the parametric representations derived above, the following expression is obtained for the limiting pressure

$$p^* = \lambda_0 [1 + F_1(\beta, \theta_0) + \gamma F_2(\beta, \theta_0)]$$

where

$$F_1(\beta, \theta_0) = [\sin^2 \theta_0 / 4\beta - 2\beta \ln(1 - 1/2\beta) \cos^2 \theta_0 - (1 + 1/4\beta) \cos^2 \theta_0] / (1 - \cos \theta_0)^{1/2}$$

$$F_2(\beta, \theta_0) = \left[\frac{4\beta^2 - 3\beta + 1}{\beta(1 - 1/2\beta)^2} - 6 \frac{4\beta^2 - 1}{1 - 1/2\beta} - 24\beta^2 \ln\left(1 - \frac{1}{2\beta}\right) + \right. \\ \left. + 20\beta^2 - 4\beta - 3 \right] \cos^2 \theta_0 - \frac{1}{\beta} \} (1 - \cos \theta_0)^{-1/2}$$

Orig. art. has: 34 equations and 4 figures.

ASSOCIATION: none

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"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

L 58466.65

ACCESSION NR: AP5013133

SUBMITTED: 16Mar64

ENCL: 01

SUB CODE: AS, ME

NO REF SCV: 004

OTHER: 005

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APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

L 58466-65

ACCESSION NR.: AP5013133

ENCLOSURE: 01

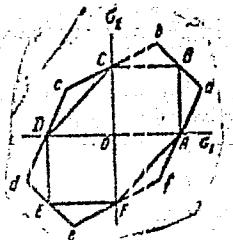


Fig. 1

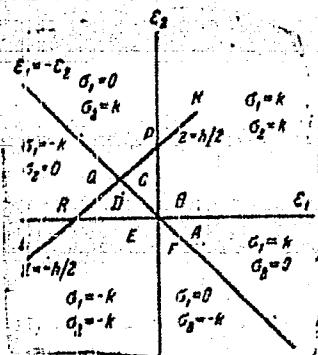


Fig. 2

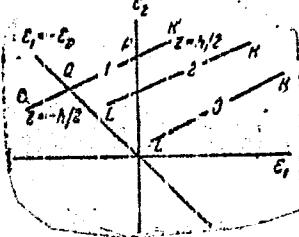


Fig. 3

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"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTROVOY, A.A.

The Ursat'yevskaya winds. Trudy Sred.-Az. nauch.-issl.gidrometeor.inst.
no.2:54-84 '59. (MIEA 13:6)
(Golodnaya Steppe-- Winds)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

LISTROVOY, A.A.

Specific features of synoptic conditions in the mountain regions of northern Kirghizistan during strong winds. Trudy Sred.-Az. nauch.-issl. gidrometeor. inst. no.4:50-57 '61.

(MIRA 15:1)

(Kirghizistan—Winds)

LISTUNOV, N.P.

Ensiling ear corn. Zhivotnovodstvo 21 no.9:49 S '59.
(MIRA 13:1)

1. Glavnyy zootehnik raysel 'khozinspeksii Mar'inskogo
rayona, Stalinskoy oblasti.
(Corn (Maize)) (Ensilage)

LES TVIN, I.

Microelements represents enormous potentials. NTO 3 no.2:5-6 P '61.
(MIRA 14:3)

1. Zamestitel' predsedatelya Stavropol'skogo krayevogo pravleniya
Nauchno-tehnicheskogo obshchestva sel'skogo i lesnogo khozyaystva.
(Growth promoting substances)

LISTVIN, I.; KOLTUNENKO, V.

Introducers of innovations in collective farms. NT0 5 no.5:13
My '63. (MIRA 16:7)

1. Zamestnatel' predsedatelya Stavropol'skogo krayevogo pravleniya
Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for
Listvin). 2. Chlen Nauchno-tehnicheskogo obshchestva sel'skogo
khozyaystva (for Koltunenko).
(Stavropol' Territory—Collective farms)

LISTVIN, I.A.; CHACHIN, V.P., red.; KORNILOV, A.A., prof., doktor
sel'khoz. nauk, red.

[Recommendations of a scientific industrial conference for
erosion control in Stavropol Territory] Rekomendatsii na-
uchno-proizvodstvennoi konferentsii po bor'be s eroziiei
pochv na Stavropol'e. Stavropol'-kraevoi, 1962. 14 p.
(MIRA 17:4)

1. Nauchno-tehnicheskoye obshchestvo sel'skogo khozyaystva.
Stavropol'skoye krayevoye pravleniye. Agronomicheskaya sektsiya.
2. Predsedatel' krayevogo pravleniya Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for Chachin).
3. Zamestitel' predsedatelya krayevogo pravleniya Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for Listvin).
4. Stavropol'skiy sel'skokhozyaystvennyy institut
i predsedatel' agronomicheskoy sektsii pravleniya Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva (for Kornilov).

LISTVIN, K. S.

"Proportionating Mineral Fertilizers for Flax Cultivation by a Grassland Flax-Rotation Method." Thesis for degree of Cand. Agricultural Sci. Sub 23 Mar 50, All-Union Sci Res Inst of Fertilizers, Agricultural Engineering, and Soil Science (imeni K.K. Gstroyets.)

[redacted] Summary 71, 4 Sept 52. Dissertations Presented for Degrees in Sci. and Engi. in Moscow in 1950. From Verhernyaya Moskva. Jan-Dec 1950.

KOSTYUCHENKO, A. D.; LISTVIN, K. S.; PETROVA, L. I.

Phosphates

Application of granulated fertilizers to long-fiber flax. Sov. agron. 10 No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952¹⁹⁵³, Uncl.

LISTVIN K.S.
KOSTYUCHENKO, A.D.; LISTVIN, K.S.; FILIPPOV, Yu.N., red.; ROZHDAYKINA, V.K.,
tekhn.red.

[The use of fertilizers on leading collective farms of the
Kalinin Province] Primenenie udobrenii v peredovykh kolkhozakh
Kalininskoi oblasti. [Kalinin] Kalininskoe knizhnoe izd-vo,
1957. 41 p. (MIRA 11:1)
(Kalinin Province--Fertilizers and manures)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53714

Author : Listvin, K.S.

Inst :

Title : The Effect of Different Forms of Phosphorus Fertilizers
on the Yield of Long-Fibered Flax in Grassland Crop
Rotation

Orig Pub : Len i konoplyna, 1957, No 1, 27-29

Abstract : The results of the field experiments conducted during
1953-1955 on the experimental field of VNIIIL/⁷ (Kali-
ninskaya Oblast') showed that the most effective forms
of phosphorus fertilizers for flax are smelted magnesium
phosphate, granular double superphosphate, ammoniated
superphosphate, common granular superphosphate and ammo-
phos. The second place in the order of effectiveness
was occupied by precipitate, powdered double superphos-
phate and the Thoms slag. The least effective in the

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USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53714

experiment was the powdered superphosphate which proved to be equivalent to phosphorite fertilizer. -- D.B. Vakhnistrov

Card 2/2

- 94 -

Country : USSR M-7
CATEGORY :

ABS. JOUR. : RZBiol., No. 19, 1958, No. 87151

AUTHOR : Listvin, K. S.
INST. : All-Union Scientific Research Institute *
TITLE : Assimilation of Different Phosphates by Flax

ORIG. PUB. : Byul. nauchno-tekh. inform. Vses. n.-i.
in-ta l'na, 1957, No 3, 11-13

ABSTRACT : In growing vessels containing medium-podzolized, light clayey loam, a study was made by means of P_{32} of the intake of P by the plants from different phosphorus fertilizers. The Pryadil'schik variety of flax was used. Greatest intake of P was observed from thermophosphate and phosphate slag (twice as high as from P_2O_5). Assimilation of P from phosphorite meal is practically the same as from P_2O_5 . These data were confirmed in 1954-1955 by field tests. In the same soil as that used in the experiments, thermophosphate and phosphate slag showed highest effectiveness in comparison with other phosphates, while phosphorite meal was equal to P_2O_5 . This confirms the value of the use of P_{32} in the studies of efficacy of different phosphates.

A. M. Smirnov.

CARD://

* of Flax.

ROGASH, A.R., otv. red.; ABRAMOV, N.G., red.; KONDRA SHUK, P.K.,
red.; DUDAREV, Ye.I., kand. sel'khoz. nauk, red.;
LEBEDEV, Ya.A., kand. sel'khoz. nauk, red.; LISTVIN,
K.S., kand. sel'khoz. nauk, red.; LAPSHINA, O.V., red.

[New facts in fiber plant cultivation; from the trans-
actions of the All-Union Scientific Research Institute on
Flax] Novoe v kul'ture l'na-dolguntsa; iz trudov Vsesoiuz-
nogo nauchno-issledovatel'skogo instituta l'na. Moskva,
Kolos, 1965. 230 p.
(MIRA 18:8)

1. Tverzhok. Vsesoyuznyy nauchno-issledovatel'skiy institut
l'na.

Listvin, N.

AID P - 905

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 15/19

Author : Listvin, N., Engineer Lt. Col.

Title : American fighter F-100. (According to foreign press data)

Periodical : Vest. vozd. flota, 5, 79-82, My 1954

Abstract : This is a concise technical description giving performance data of the American fighter F-100 (Super Sabre). The information was taken from the journals American Aviation and Aeroplane. Diagrams.

Institution : None

Submitted : No date

AID P - 312

Subject : USSR/Aeronautics

Card : 1/1

Author : Listvin, N., Lt. Col., Engineer

Title : Jet Bombers B-47 and B-52

Periodical : Vest. Vozd. Flota, 7, 87-89, Jl 1954

Abstract : Technical data on jet bombers B-47 and B-52 repeated from English magazines.

Institution : None

Submitted : No date

AID P - 5240

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 26/26

Authors : Listvin, N. I., Eng.-Lt. Col. and F. P. Suprun, Col.

Title : Air show at Farnborough

Periodical : Vest. vozd. flota, 11, 89-96, N 1956

Abstract : Review of aircraft displayed at the air show held in Farnborough, Sept. 1956.

Institution : None

Submitted : No date

LISTVIN, N. I.

AID P - 5497

Subject : USSR/Aeronautics - aerodynamics

Card 1/1 Pub. 135 - 14/26

Author : Listvin, N. I., Eng.-Col.

Title : On an aerodynamic peculiarity of supersonic aircraft

Periodical : Vest. vozd. flota, 3, 68-70, Mr 1957

Abstract : This is the answer to the question asked by some readers:
Why are the fuselages of some supersonic aircraft made
narrower at the place of wing junction? Four diagrams.
The article is of informative value.

Institution : None

Submitted : No date

ZISTVIN, N.I.

86-12-17/29

AUTHOR: Listvin, N.I., Engr Col

TITLE: About the Improvement of the Airflow around the Aircraft
at Transonic Speeds (Ob uluchshenii obtekaniya samoleta
pri transzvukovykh skorostyakh)

PERIODICAL: Vestnik Vozdushnogo Flota Nr 12, 1957, pp. 64-67 (USSR)

ABSTRACT: This article contains answers to the questions why the surfaces of some aircraft (the wing, empennage, fuselage) are provided with special plates called turbulizers (turbuluzator) and why the leading edge of the wing of some modern aircraft is bent down or provided with a projection (zubets-naplyv). In his answers the author first explains the behavior of a transonic flow around an aircraft by means of diagrams representing the lift force coefficient c_y and the pressure distribution on the upper and the lower surface of the wing. He also describes the turbulizer and how it functions. As to the projection (zubets) on the wing, he says that it is to prevent the separation of the flow and, in addition, it improves the aerodynamical quality of the aircraft in flight at large angle of attack, improves the lateral

Card 1/2

LISTVIN, N.I., inzh.-polkovnik, red.; BIRYUKOV, N.I. [translator]; ZAYTSEV,
N.P., red.; KLIMENKO, S.B., tekhn. red.

[Supersonic airplanes; a collection of translations and abstracts
from foreign periodical literature] Sverkhzvukovye samolety; sbornik
perevodov i referatov iz inostrannoi periodicheskoi literatury.
Moskva, Izd-vo inostr. lit-ry, 1958. 233 p. (MIRA 11:7)
(Airplanes)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTVIN, N.I., inzhener-polkovnik

On a fighter-bomber. Vest. Vozd. Pl. no.5:90-93 My '61.
(MIRA 14:8)
(United States--Airplanes, Military)

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CIA-RDP86-00513R000930120015-0"

LISTVIN, N., inzhener-polkovnik

Military airplanes of NATO as revealed by foreign press data.
Starsh...serzh. no.11:32-33 O[i.e. N] '61. (MIRA 15:2)
(North Atlantic Treaty Organization)

LISTVIN, N.I., inzhener

Improving the airflow of an airplane at transonic speeds.
Vest. Vozd. Fl. 40 no.12:64-67 D '57. (MIRA 14:12)
(Aerodynamics—Transonic)

LISTVIN, N.I., in-polkovnik

Air-bone ballistic rocket. Vest. Vozd. Fl. no.10:87-90 O '61.
(MIRA 15:2)
(United States--Rockets(Ordnance))

LISTVIN, N., inzhener-polkovnik

Pilotless reconnaissance airplane. Av.i kosm. 44 no.4:71-73 '62.
(MIRA 15:4)

(Aeronautics, Military—Observations) (Guided missiles)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTVIN, N., inzhener-polkovnik

Fighter planes. Av.i koam. 45 no.8:93-95 '62. (MIRA 15:8)
(Fighter planes)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

LISTVIN, N., inzh.-polkovnik

Airplanes of 1962. Av. i kosm. 45 no.11:88-91 '62.
(MIRA 15:11)
(Airplanes--Design and construction)

LISTVIN, N.

In the last month. Av.i kosm. 46 no.1:90-95 Ja '64.
(MIRA 17:3)

1. Obozrevatel' zhurnala "Aviatsiya i kosmonavtika".

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTVIN, N., inzhener-polkovnik

Experimental specimen, projects. Av. i kosm. 47 no.7:90-94
Jl '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTVIN, N., inzhener-polkovnik

Orientation of a spaceship flying toward the moon. Av. i kozm.
46 no.5:80-85 My '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

LISTVIN, N., inzh.-polkovnik

Provocative operations of high-altitude military airplanes
of the United States. Av. i kosm. 47 no.9:89-94 S '64.
(MIRA 17:8)

1. Obozrevatel' zhurnala "Aviatsiya i kosmonavtika".

LISTVIN, S.A.

LISTVIN, S.A.

Quality and inspection of metallic pattern equipment. Lit.
(MLRA 8:10)
proizv. no.7:29-30 Jl'55.
(Pattern-making machinery)

LISTVIN, Viktor Fedorovich; ZARETSKAYA, N.V., red.; ZENIN, V.V.,
[red.] red.

[Planned development of socialist production] Planomernoe
razvitiye sotsialisticheskogo proizvodstva; lektsiiia po
kursu politicheskoi ekonomii. Saratov, Izd-vo Saratovskogo
univ., 1963. 58 p. (MIRA 16:9)
(Russia--Economic policy)

L 18879-66 EWT(1)/EWT(m)/EWP(t) IJP(c) GG/JD
ACC NR: AP6006827 SOURCE CODE: UR/0181/66/008/002/0443/0447

AUTHOR: Vystavkin, A. N.; Gubankov, V. N.; Listvin, V. N.

ORG: Institute of Radio Engineering and Electronics AN SSSR, Moscow (Institut
radiotekhniki i elektroniki AN SSSR)

TITLE: Effect of electromagnetic radiation in the 0.2-8 mm range on electrical con-
ductivity of n-InSb at helium temperatures

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 443-447

TOPIC TAGS: indium compound, antimonide, EHF, low temperature effect, semiconductor theory, electric field, electromagnetic radiation

ABSTRACT: The authors compare the dynamic and static conversion factors for a large number of n -InSb specimens as a function of the electric field in the 8-0.2 mm range. These specimens had an uncompensated donor concentration of 10^{13} - 10^{14} cm^{-3} and a mobility of $(1-8) \cdot 10^5 \text{ cm}^2/\text{v}\cdot\text{sec}$ measured at nitrogen temperatures. The experiments were performed in magnetic fields of 0-12000 oersteds at temperatures of 1.5-4.2°K. It was found that curves for the static conversion factor as a function of

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ACC NR: AP6006827

the electric field are similar to those for the dynamic conversion factor for all specimens throughout the entire range of magnetic fields and temperatures studied. Close coincidence was observed between the static and dynamic conversion factors at wavelengths greater than 0.7-0.8 mm. There was a drop in the dynamic conversion factor of one or two orders of magnitude in the 0.7-0.2 mm wavelength range due to a reduction in the electrical conductivity and the consequent absorption of emission power with an increase in frequency. The specimens were divided into two classes depending on their behavior in a magnetic field: class M in which the dynamic conversion factor passes through a maximum on all wavelengths with an increase in the magnetic field; class B in which the dynamic conversion factor in the absence of a magnetic field was approximately an order of magnitude greater than in the class M type and decreased with an increase in the magnetic field. The static conversion factor increased smoothly with the magnetic field in both cases. The divergent behavior of the dynamic and static conversion factors in this case is explained by a considerable reduction in the electrical conductivity and consequently the fraction of incident radiation power absorbed in the specimen with an increase in the magnetic field. There was no sharp boundary between class M and class B: specimens were observed with intermediate properties. None of the specimens showed a sharp photoelectric threshold. The experimental data indicate that the predominant

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L 18879-66

ACC NR: AP6006827

mechanism responsible for the effect of millimeter and submillimeter radiation on electrical conductivity in n -InSb is heating of the free electron gas in all cases as opposed to impurity photoconductivity. "The authors are sincerely grateful to F. F. Kharakhori and L. A. Bovina for furnishing the specimens, to V. D. Shtykov and V. P. Mayorov for participating in the measurements, to V. V. Migulin for constant interest in the work and consultation on methods, to V. L. Bonch-Bruyevich, Yu. V. Gulyayev, Sh. M. Kogan and Yu. S. Tikhomirova for discussing the results and for valuable consultation, to Ye. M. Gershenson and Yu. A. Gurvich who gave us data from their analysis of the thermal concentration mechanism responsible for the effect of radiation on the electrical conductivity of n -Ge." Orig. art. has: 3 figures, 2 formulas.

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[14]

SUB CODE: 20/ SUBM DATE: 14Jul65/ ORIG REF: 010/ OTH REF: 011/ ATD PRESS:

4217

Card 3/3

L 38458-66

ACC NR: AP6023871

SOURCE CODE: UR/0109/66/011/007/1252/1256

43
B

AUTHOR: Aganbekyan, K. A.; Vystavkin, A. N.; Listvin, V. N.; Shtykov, V. D.

ORG: none

TITLE: Receiver with an n-InSb detector for studying absorption spectra in the submillimeter-wave band

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1252-1256

TOPIC TAGS: absorption spectrum, submillimeter wave, indium compound

ABSTRACT: As the sensitivity of a receiver operating at room temperature practically cannot be better than $10^{-10} - 5 \times 10^{-11}$ w, which corresponds to a theoretical limit of 5×10^{-12} w (E.H. Putley, Infr. Physics, 1964, 4, 1, 1), n-InSb receivers operating at very low temperatures may open new possibilities (G. H. Harding et al., Proc. phys. Soc., 1961, 77, 5, 1167). The electron-gas heating in the n-InSb at 4.2K has been used for detecting the radiation at 300-2000- μ m wavelengths (B. V. Rollin, Proc. Phys. Soc., 1961, 77, 5, 1102; M. A. Kinch et al., Brit. J. Appl. Phys., 1963, 14, 10, 672). In using such a receiver for studying atmospheric absorption, a modulation circuit with a synchronous detector and a pre-detector stage with a tuned-secondary transformer has been used by B. H. Martin et al. (Cryogenics, 1960, 10, 159). The present article reports a "similar circuit" with a modulation

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UDC:621.384.22:621.371.166.029.66

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L 38462-66

ACC NR: AP6023871

frequency of 800 cps; its measured sensitivity was about 10^{-9} v. A PRK-4 mercury quartz lamp was used as a source. An averaged sensitivity at the receiver input was 10^{-11} w, with an LC-filter time constant of 1 sec (the minimum detected power was 2×10^{-12} w). "The authors wish to thank V. V. Migulin and A. V. Sokolov for their attention to the work, B. Z. Katsenelenbaum for his useful advice, and V. M. Afinogenov and V. I. Suchilkin for their help in carrying out the measurements." Orig. art. has: 6 figures.

[03]

SUB CODE: 09 / SUBM DATE: 18Mar65 / ORIG REF: 004 / OTH REF: 006 / ATD PRESS: 5047
OB/

Card 2/2448 APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930120015-

1. LISTVIN, V. S. - PARFENOV, K. A., ENGS.
2. USSR (600)
4. Condensers (Electricity)
7. Distribution of condensers in an electric power network. Prom.energ. 9 no. 12, 1952

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930120015-0

9. Monthly List of Russian Accessions. Library of Congress, March 1975, UnReleased

LISTVIN, V. S.

AID P - 1289

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 13/30

Author : Listvin, V. S., Eng., Moscow

Title : Some measurements with an electronic oscilloscope

Periodical : Elektrichesivo, 1, 62-65, Ja 1955

Abstract : The author describes a method of analysis of a linear network with a sinusoidal voltage. The method is based on the study of the ellipse on the oscilloscope screen when the horizontal deflections express the studied voltage, and the vertical, the voltage proportional to the current. The maximum screen values of the active, reactive, and total currents and voltages are determined. By means of simple geometric operations the resistance, reactance, impedance, conductivity power and angles are determined. The author also analyses the errors in basic measurement and methods for their reduction. Three diagrams.

Institution : None

Submitted : Mr 17, 1954

KHOMAZYUK, Vasiliy Grigor'yevich; TARUSOV, B.N., prof., obshchiy red.;
LISTVIN, V.S., red.; LIPKINA, T.G., red.izd-va; TITOVA, L.L.,
~~tekhn.red.~~

[Practical work in general biophysics in 8 parts] Praktikum
po obshchei biofizike v vos'mi vypuskakh. Moskva, Gos.izd-vo
"Sovetskaiia nauka." Pt.2. [Elements of electronics] Elementy
elektroniki. 1958. 135 p. (MIRA 12:8)
(Electronics)

LISTVIN, V. S., Cand Tech Sci (diss) -- "Investigation of the electrical method
of enriching the intermediate products of wheat brinding". Moscow, 1960.
12 pp (Min Higher and Inter Spec Educ RSFSR, Moscow Tech Inst of the Food
Industry), 150 copies (KL, No 14, 1960, 131)

KAZAKOV, Ye.D.; LISTVIN, V.S.

Temperature field of corn grain under the action of water. Inzh.-
fiz. zhur. 4 no.6:132-134 Je '61. (MIRA 14:7)

1. Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva.
(Corn (Maize))
(Seeds—Morphology)

BERCHETT, Ulfred [Burchett, W.], zhurnalista; LISTVINOV, Yu.N. [translator];
SEMASHIN, V.A., red.; GRIBOVA, M.P., tekhn.red.

[Mekong upstream] Verkh po Mekongu. Red. V.A.Semashin. Moskva.
Izd-vo inostr.lit-ry, 1958. 328 p. [Translated from the English]
(MIRA 12:5)

(Cambodia--Description and travel)
(Laos--Description and travel)

L 23346-65 EWT(m)/EMP(b)/T/EWA(d)/EMP(w)/EMP(t) JD
ACCESSION NR: AR4040332 S/0124/64/000/004/V038/V038

SOURCE: Ref. zh. Mekhanika, Abs. 4V246

AUTHOR: Listvinskiy, G. Kh.

B

TITLE: Some similarities in problems on stabilized creep | 8

CITED SOURCE: Sb. Polzuchest' i dilitel'n. prochnost'. Novosibirsk, Sib. otd AN SSSR, 1963, 168-174

TOPIC TAGS: stabilized creep simulation, rotating disk, perforated disk, irregularly heated body, flow pattern coincidence, peak tangential stress

TRANSLATION: The author discusses the simulation of deformation rate fields through various fields of external loads under conditions of plane deformation and incompressibility of a material which complies, in cases of axial symmetry, with two initial physical dependencies. These are in the form, $\xi_r = 0.25 f(T) (\omega_r - \omega_\varphi)$, where $T = 0.5 (\sigma_\varphi - \sigma_r)$ - is the intensity of tangential stresses. A comparison of the radial stress σ_r in two hollow cylinders with equal radii (inside a and outside b), one of which rotates at an angular velocity ω while the

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L 23346-65

ACCESSION NR: AR4040332

D

other is at rest but acted on by an internal pressure p , served to establish that flow patterns can be simulated completely if $p = 0.5 \gamma \omega (b^2 - a^2)$, where γ is density. The simulation applies to major, as well as minor, levels of deformation. It is noted that problems on simulation of creep in irregularly heated thick-walled cylinders, acted on by an internal pressure p through uniformly heated cylinders, acted on by pressure p_0 , can be approached in similar terms. Compliance with a cited condition relating p and p_0 results in simulation of flow pattern. It was established that certain similarities can be observed for perforated disks, in which $\sigma_a > \sigma_r > 0$, when the criteria of peak tangential stress are substituted and corresponding flow principles are used. Creep in a rotating disk is simulated by creep in a disk stressed by forces applied to its outside contour when a condition formulated by the author is satisfied. Another cited condition requires compliance in terms of the angular velocities of disks of uniform or variable thickness when simulation is undertaken. The author demonstrated, within the overall formulation of the problem, that a relationship between creep in uniformly and irregularly heated bodies does exist in cases of a simple temperature dependence. He formulated two conditions, compliance with which insures coincidence of flow patterns for uniformly and irregularly heated bodies. M. I. Rozovskiy.

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L 23346-65
ACCESSION NR: AR4040332

SUB CODE: AS

ENCL: 00

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Card 3/3

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTVINSKIY, G.Kh., inzh.

Simulation of the creep of turbine components. Energomashinostroenie
11 no.6:4-7 Je '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

LEVCHENKO, B.L., inzh.; LISTVINSKIY, G.Kh.

Stresses in the walls of steam turbine units during heating.
Energomashinostroenie 10 no.12:34-37 D '64. (MIRA 18:2)

L 10267-67 EWT(d)/EWP(w)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k) IJP(c) 3D/MM/EM
ACC NR: AP7003091 SOURCE CODE: UR/0380/66/000/004/0076/0031

AUTHOR: Listvinskiy, G. Kh. (Leningrad) 47

ORG: none

TITLE: Modeling of creep of machine parts working under internal pressure

SOURCE: Mashinovedeniye, no. 4, 1966, 76-81

TOPIC TAGS: creep, elastic deformation, plastic deformation

ABSTRACT: The serious difficulties encountered in testing the stressed state of shells to be used for long periods of time at temperatures of 500-600°C are connected with the lack of a definitive methodology for long term tensometry of static deformations under these conditions. A modeling method is analysed allowing a sharp reduction both in the duration of tests and in the temperature required. By replacing the rate of deformation by the deformation itself in the equations ordinarily used to calculate deformation, the equations for creep are made identical to equations from the theory of small elastic-plastic deformations, which allows experimental solution of the problem of creep to be replaced by a simple solution of the elastic-plastic deformation equations. The results of modeling creep in the area of the joint of a spherical and a cylindrical shell are given as an example.
Orig. art. has: 6 figures, 21 formulas and 1 table. [JPRS: 38,228]

SUB CODE: 20 / SUBM DATE: 27May65 / ORIG REF: 009

Card 1/1570

0903- 0042

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISTVINSKIY, V.M., inzh.; FEL'DMAN, V.Ya., inzh.

Actuating mechanism for mining equipment. Mekh. i avtom. proizv.
18 no. 6:39-40 Je '64. (MFA 17:9)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

LISTWAN, Andrzej, mgr inz

Testing combined dust separators in the Bielsko Heat and
Power Station and the Pomorzany Power Plant. Energetyka
Pol 18 no.3: Supplement: Energopomiar 10 no.2:10-14 Mr'64

1. Pion Cieplny, Zaklad Badan i Pomiarow, Warszawa.

LISTWAN, Wladyslaw

Radiographic image quality in the inspection of thin walled pipeline
welds. Przegl spaw 13 no.10:260-262 '61.

1. Instytut Podstawowych Problemow Techniki Polskiej Akademii Nauk,
Zaklad Badan Izotopowych.

LISTWAN, Wladyslaw, inz.; RADWAN, Maciej, prof. dr. inz.

Detection of leaks of underground gas pipes by the use of radioactive tracers. Gaz woda techn sanit 36 no.6:205-206 Je '62.

Z/056/63/020/002/007/007
E073/E135

AUTHORS: Listwan, W., and Radwan, M.

TITLE: Detection of leakages in underground gas pipelines
by labelled atoms

PERIODICAL: Hutnický a strojirenství. Přehled technické a
hospodářské literatury, v.20, no.2, 1963, 117,
abstract HS 63-144. (Gaz Woda Techn. sanit., v.36,
no.6, 1962, 205-206)

TEXT: A technical description is given of the method, the
equipment required and the results achieved. The authors discuss
the labelling of the atoms, their movement in the gas, their
passage through the damaged zone, their decomposition, and also
their detection. Also, information is given on the experience
gained up to now in Poland.
5 figures.

[Abstracter's note: Complete translation.]

Card 1/1

LJSULOV, A.

Yugoslavia (430)

Technology-Periodicals

Pneumatic equipment for distant measurement of
the level of liquid fuels in big tanks. p. 12.
NAFTA. (Institut za naftu) Zagreb. (Monthly
on the production and refining of petroleum
issued by the Petroleum Institute). Vol. 4,
No. 1, Jan. 1953.

East European Accessions List, Library of Congress,
Vol. 2, No. 6, June 1953. Unclassified.

LISULOV, A.

Condensers for refrigerating machines and their development from the point of view of greater economy in cooling water. II. (Conclusion) p. 547.
TEHNIKA, Beograd, Vol. 10, no. 4, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

LISULOV, A.

Use of refrigeration for meat. p. 1473

TEHNIKA, Beograd, Vol 10, No. 10, 1955

SO: EEAL, Vol 5, No. 7, July 1956

LIKUN, A.G. (Lt. Col, Vet. Service)

Lisun, A.G. and V.Z. Reshetnyak (Capt, Vet. Service)

"Comparative Methods of Treatment of 'Joint Fractures' in Colts,"

SO: Veterinariya, Vol 26, No 2, pp 39-44, 1949.

LISUN, N.M., polkovnik

Along the path of growth. Vest. protivovozd. obor. no.10:42-45
0 '61. (MIRA 15:2)
(Military education)

FROLENKO, Ye.V., dotsent; LISUN, V.P.

Change in the prothrombin, fibrinogen, and viscosity of the blood following the use of leeches. Zdrav. Belor. 6 no. 7:22-23 Je '60. (MIRA 13:8)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy - prof. G.Kh. Davgyallo) Minskogo meditsinskogo instituta i terapevticheskogo otdeleniya 1-y klinicheskoy bol'nitsy glavnnyy vrach A.I. Shute).

(PROTHROMBIN) (FIBRINOGEN) (LEECHES)

POKIDIN, V.K.; LISUNKIN, A.M.

Using a recording polarograph for the determination of iron in used
crankcase oils. Sbor. trud. Az NII MP no.4:163-169 '59. (MIRA 15:5)
(Polarograph) (lubrication and lubricants)

33232 LISUNKIN, YU. I.

Sluchay chastichnogo nezarashcheniya mezhzeludochkovoy peregordki serdtsa
i oval'nogo otverstiya. Sbornik trudov (Arkhang. gos. med. in-t). vyp. 9,
1949, s. 114-17. - Bibliogr: 10 nazv.

LISUNKIN, Yu. I.

Pharmacological characteristics of N,N'-methylated phenylenediamines
[with summary in English]. Farm. i toks. 21 no.2:35-40 Mr-Ap'58
(MIRA 11:6)

1. Otdel farmakologii (zav. - deystvitel'snyy chlen AMN SSSR
prof. S.V. Anichkov) Instituta eksperimental'noy meditsiny AMN SSSR.
(SYMPATHOMIMETICS,
N,N'-methylated phenylenediamines (Rus))

LISUNKIN, Yu.I., Cand Med Sci -- (diss) "Pharmacological characteristics of N, N₁-methylated phenylenediamines." Len, 1958, 13 pp (Inst of Experimetnal Medicine of Acad Med Sci) 200 copies (KL, 28-58, 110)

- 87 -

LISUNKIN, Yu.I.

Simultaneous use of various cholinolytics in experimental arecoline hyperkinesis. Farm.i toks. 23 no.4:321-327 Jl-Ag '60.
(MIRA 14:3)

1. Laboratoriya eksperimental'noy farmakoterapii (zav. - prof. N.A.Kharauzov) ot dela farmakologii. (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V.Anichkov) Instituta eksperimental'noy meditsiny AMN SSSR.

(PARASYMPATHOLYTICS)

(PARASYMPATHOMIMETICS)

LISUNKIN, Yu.I.

Combined use of cholinolytics in phosphacol intoxication in mice.
Farm.i toks. 24 no.2:175-180 Mr-Ap '61. (MIRA 14:6)

1. Laboratoriya farmakoterapii (zav. - prof. N.A.Kharauzov) otdela
farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V.
Anichkov) Instituta eksperimental'noy meditsiny AMN SSSR.
(PHOSPHATES--TOXICOLOGY) (PARASYMPATHOLYTICS)

LISUNKIN, YU. I. (Leningrad)

"Statistical Processing Experimental Data in the Study of Combined Effect of
Drugs by the Method of Levey"

Report presented at the 3rd Conference on the use of Mathematics in Biology,
Leningrad University, 23-28 Jan. 1961.
(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp 5-11)

LISUNKIN, Yu.I.

"Sensitizing" and "desensitizing" effect of atropine, BETE,
and amysil on the anticonvulsant activity of pentaphene and
tropacine. Biul. eksp. biol. i med. 54 no.9:69-73 S '62.
(MIRA 17:9)

1. Iz laboratorii eksperimental'noy farmakoterapii (zav...
prof. N.A. Kharauzov) otdela farmakologii (zav.- deystvitel'-
nyy chlen AMN SSSR S.V. Anichkov) Instituta eksperimental'noy
meditsiny AMN SSSR, Leningrad. Predstavлено deystvitel'nym
chlenom AMN SSSR S.V. Anichkovym.

LISUNKIN, Yu.I.

Acetylcholine metabolism in the rat brain following the combined action of sulfate and some phenylacetic acid derivatives. Biul. eksp. biol. i med. 57 no. 2:80-83 F '64. (MIRA 17:9)

1. Laboratoriya eksperimental'noy farmakoterapii (zav. - prof. N.A.Kharauzov) otdela farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V.Anichkov) Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR S.V.Anichkovym.

OVAKIMOV, V.G.; KHARAUZOV, N.A. [deceased]; LISUNKIN, Yu.I.

Pharmacological characteristics of some tropine compounds.
Farm. i toks. 27 no.1:7-12 Ja-F '64.

(MIRA 17:11)

1. Laboratoriya eksperimental'noy farmakologii (zav. - prof. N.A. Kharauzov [deceased]) otdela farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. S.V. Anichkov) Instituta eksperimental'noy meditsiny AMN SSSR.

LISUNKINA, I.K. [Lysunkina, I.K.]

Formation of diphtheria antitoxin by cells of the reticuloendo-thelial system transplanted into the animal organism. Mikrobiol. zhur. 27 no.1:65-70 '65. (MIRA 18:7)

l. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii.

LESUNKINA, L.K.

Possibility of antibody formation in the transplantation of
cells of the reticuloendothelial system into an animal orga-
nism. Zhur. mikrobiol., epid. i immun. 41 no.10:12-16 '64.
(MIRA 18:5)

1. Kiyevskiy institut epidemiologii i mikrobiologii.

LISUNKINA, YE. N.

The hemoglobin and catalase content of the blood of chickens, domestic animals, and man. E. N. Lisunkina,
MD. *Sbornik Trudov Arkhangelsk. Med. Inst.* 1954, No. 12, 1957-
16; *Referat. Zhur. Khim., Biokhim., Khim.* 1955, No. 141.
B. S. Levine

USSR/Pharmacology and Toxicology. Toxicology

v-8

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 47301

Author : Lisunkina Ye. N.

Inst : Arkhangelsk Medical Institute

Title : The Effect of Carbon Disulfide Upon the Secretory Action
of the Pancreas

Orig Pub : Sb. tr. Arkhang. med. in-t, 1956, vyp. 13, 43-50

Abstract : The effect of the intravenous introduction of CS₂ (0.2% aqueous solution) upon the secretory action of the pancreas (P), when stimulated by secretin (S), was studied under conditions of an acute experiment on cats and dogs, under urethane-morphine-ether narcosis. It was established that a dose of 5 mg/kg. of CS₂ increases the reactivity of P to S and augments the amount of P secretion. The doses of 20 mg/kg. of CS₂ exert an opposite effect and decrease the reaction of P to S. A dose of 30 mg/kg. of CS₂ produces a complete cessation of reactivity of P to S. The introduction of pilocarpine with the background of poisoning by CS₂

Card : 1/2

1. LISUNOV, A.
2. USSR (600)
4. Irrigation Farming
7. Making full use of irrigated land in new areas. Sots. sel'khoz. 24 no. 2, 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0

LISUNOV, A.D. (Novosibirsk)

Flutter of a panel in the flow of a compressible conducting
fluid in the presence of a magnetic field. PMTF no.4:65-67
N-D '60. (MIRA 14:7)

(Flutter(Aerodynamics))
(Magnetohydrodynamics)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120015-0"

16.7600

77998

SOV/40-24-1-26/28

AUTHOR:Lisunov, A. D. (Novosibirsk)**TITLE:**On the Theory of Unsteady Supersonic Flow of a Gas
About a Wing of Finite Span**PERIODICAL:**Prikladnaya matematika i mekhanika, 1960, Vol 24,
Nr 1, pp 166-168 (USSR)**ABSTRACT:**

The unsteady three-dimensional supersonic flow of a nonviscous compressible fluid about a wing is considered. A double series representation is obtained for the perturbation velocity potential $\phi_1(x, y, z, t)$ starting from the solution

$$\phi_1(x, y, z, t) = -\frac{1}{2\pi} \iint_S \frac{1}{r} [\eta(\xi, \eta, t - \tau_1) + \eta(\xi, \eta, t - \tau_2)] d\xi d\eta \quad (1.3)$$

of the wave equation

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$$\beta^2 \frac{\partial^2 \phi_1}{\partial x^2} - \frac{\partial^2 \phi_1}{\partial y^2} - \frac{\partial^2 \phi_1}{\partial z^2} + \frac{1}{a^2} \frac{\partial^2 \phi_1}{\partial t^2} + 2 \frac{M}{a} \frac{\partial^2 \phi_1}{\partial x \partial t} = 0 \quad (\beta = \sqrt{M^2 - 1}) \quad (1.2)$$

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This equation characterizes the potential when the wing-created disturbances are small and the air stream flows about the wing in the positive x-direction with a constant velocity. Here, M is the Mach number of the undisturbed stream $q(x, y, t)$ is the downwash flow on the surface of the wing, a is the speed of sound and

$$r = \sqrt{(x - \xi)^2 + \xi^2 [(y - \eta)^2 + z^2]}, \quad \tau_{1,2} = \frac{M}{a\beta^2} (x - \xi) \mp \frac{r}{a\beta^2} \quad (1.4)$$

The region of integration S lies inside the forward Mach cone with vertex at the considered point. The exponential operator $f(t \mp T) = \exp(-T \partial / \partial t) f(t)$ is then used to transform (A). By expanding the exponentials which appear and reordering them, the author obtains

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$$q_1(x, y, z, t) = -\frac{1}{\pi} \sum_{m=0}^{\infty} \frac{\partial^m}{\partial t^m} \sum_{k=n}^{k=m} \frac{\mu^m M^{2k-m}}{[2(m-k)]! [2k-m]!} \iint_S (x - \xi)^{2k-m} r^{2(m-k)-1} \eta(\xi, \eta, t) d\xi d\eta \quad (1.7)$$

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Here, $n = m/2$ or $(m+1)/2$ depending on whether m is even or odd. The value $m = 0$ corresponds to the potential in the stationary theory whereas the first two terms of the series correspond to the quasi-stationary theory. In the case of periodic motion, $\omega t = i$ where ω is the circular frequency. As an application, the author shows how the aerodynamic forces on an elastic wing of finite span acted on by an arbitrary disturbance (e.g. an air gust) can be found. There are 2 Soviet references.

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